Weather Response Traffic Information (WxTINFO)

HOW COULD THIS HELP?

✓ Improves work zone safety during severe weather events

HOW DOES THIS WORK?

✓ An application could use connected vehicle data and communications systems to enhance the operation of variable speed limit systems and improve Work zone safety during severe weather events.
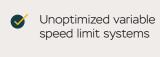
SOLUTION IMPROVEMENTS

✓ Unoptimized variable speed limit systems

✓ Work zone safety

SOLUTION PITFALLS

✓ Infrastructure and vehicle must be V2I equipped

✓ Dependent on volume of probe vehicles for data

Disclaimer: all content is for planning purposes only and published as of Summer 2020. Contact the author at shacav@mdot.maryland.gov with any questions or comments.

INVESTMENT

+ V2X ROADSIDE UNIT COST PER MILE-FREEWAYS
  $52,000

+ V2X ROADSIDE UNIT COST PER INTERSECTION-SIGNALIZED CORRIDORS
  $26,000

+ V2X SIGNAL CONTROLLER COST PER INTERSECTION-SIGNALIZED CORRIDORS
  $10,000

+ FIBER OPTICS COST PER MILE
  $158,000

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION